

Author Index

- Abraham, F., see R.N. Vannier 53-56 (1992) 713
- Ado, K., Y. Saito, T. Asai, H. Kageyama and O. Nakamura, Li⁺-ion conductivity of Li_{1+x}M_xTi_{2-x}(PO₄)₃ (M: Sc³⁺, Y³⁺) 53-56 (1992) 723
- Ado, K., see Y. Saito 53-56 (1992) 728
- Akridge, J.R., see S.D. Jones 53-56 (1992) 628
- Albinsson, I., P. Jacobsson, B.-E. Mellander and J.R. Stevens, Ion association effects and ionic conduction in polyalkylene modified polydimethylsiloxanes 53-56 (1992) 1044
- Alcock, C.B., B. Li, J.W. Fergus and L. Wang, New electrochemical sensors for oxygen determination 53-56 (1992) 39
- Alcock, C.B., Solid state sensors and process control 53-56 (1992) 3
- Alqahtany, H., see P.H. Chiang 53-56 (1992) 135
- Angell, C.A., see M.G. McLin 53-56 (1992) 1027
- Angenault, J., see O. Tillement 53-56 (1992) 391
- Angulo, H., see R.A. Vargas 53-56 (1992) 1302
- Arashi, H. and H. Naito, Oxygen permeability in ZrO₂-TiO₂-Y₂O₃ system 53-56 (1992) 431
- Arashi, H., see H. Naito 53-56 (1992) 436
- Arbizzani, C., see M. Mastragostino 53-56 (1992) 471
- Arntz, F.O., see R.B. Goldner 53-56 (1992) 617
- Asai, T., see K. Ado 53-56 (1992) 723
- Asai, T., see Y. Saito 53-56 (1992) 728
- Atake, T., H. Kawaji, R. Kanno, K. Ohno and O. Yamamoto, Heat capacity anomaly in high ionic conductor Rb₄Cu₁₆I₇Cl₁₃ 53-56 (1992) 1260
- Awano, T., T. Nanba and M. Ikezawa, Millimeter wave spectroscopy and color centers of MAg₄I₅ (M=Rb, K and NH₄) family 53-56 (1992) 1269
- Bach, S., see J.P. Pereira-Ramos 53-56 (1992) 701
- Backs, S.J. and T.H. Etsell, Electrical properties of transition metal aluminate spinels 53-56 (1992) 1305
- Baddour, R., see J.P. Pereira-Ramos 53-56 (1992) 701
- Badot, J.C., L. Binet, N. Baffier, R. Morineau and A. Fourrier-Lamer, Electrical transport properties in vanadium bronzes obtained by the sol-gel process 53-56 (1992) 343
- Badot, J.C., see Ph. Colomban 53-56 (1992) 813
- Badwal, S.P.S. and J. Drennan, Microstructure/conductivity relationship in the scandia-zirconia system 53-56 (1992) 769
- Bae, J.-M. and S.-J. Park, Surface conduction characteristic of 8 mol% Y₂O₃-ZrO₂ 53-56 (1992) 798
- Baffier, N., see J.C. Badot 53-56 (1992) 343
- Baffier, N., see J.P. Pereira-Ramos 53-56 (1992) 701
- Balkanski, M., see C. Julien 53-56 (1992) 400
- Barrie, J.D. and B. Dunn, Optical spectroscopy of Cu⁺-doped β-aluminas 53-56 (1992) 496
- Bates, J.B., N.J. Dudney, G.R. Gruzalski, R.A. Zuhr, A. Choudhury, C.F. Luck and J.D. Robertson, Electrical properties of amorphous lithium electrolyte thin films 53-56 (1992) 647
- Bates, J.B., see N.J. Dudney 53-56 (1992) 655

- Bebelis, S., see C.G. Vayenas 53-56 (1992) 97
- Becker, S., A. Rahmel and M. Schütze, Oxidation of TiSi_2 and MoSi_2 53-56 (1992) 280
- Beeken, R.B., S.M. Wang and D.R. Smith, Electrical properties of $\text{Ag}_5\text{Te}_2\text{Cl}$ and Ag_3TeBr 53-56 (1992) 220
- Belhadj-Tahar, N., see Ph. Colomban 53-56 (1992) 813
- Benammar, M. and W.C. Maskell, Measurement of oxygen partial pressure using a miniature oxygen pump-gauge operated in the potentiometric mode 53-56 (1992) 75
- Benavente, J. and A. Heredia, Electric asymmetry of tomato cuticular membranes from permselectivity and resistance values 53-56 (1992) 170
- Berbenni, V., A. Marini, S. Scotti and M. Villa, Decomposition and phase separation of AgI-doped silver borate glasses 53-56 (1992) 1245
- Berera, G., see R.B. Goldner 53-56 (1992) 617
- Bieger, T., J. Maier and R. Waser, Optical investigation of oxygen incorporation in SrTiO_3 53-56 (1992) 578
- Binet, L., see J.C. Badot 53-56 (1992) 343
- Bloom, I., M.C. Hash, J.P. Zebrowski, K.M. Myles and M. Krumpelt, Oxide-ion conductivity of bismuth aluminates 53-56 (1992) 739
- Boivin, J.C., see P. Conflant 53-56 (1992) 592
- Boivin, J.C., see R.N. Vannier 53-56 (1992) 713
- Bonanos, N., see M.N. Mahmood 53-56 (1992) 142
- Bonanos, N., Transport properties and conduction mechanism in high-temperature protonic conductors 53-56 (1992) 967
- Booth, C., see S. Nagae 53-56 (1992) 1118
- Borsa, F., see S.W. Martin 53-56 (1992) 1141
- Boukamp, B.A., see B.A. van Hassel 53-56 (1992) 890
- Bouwmeester, H.J.M., H. Kruidhof, A.J. Burggraaf and P.J. Gellings, Oxygen semi-permeability of erbia-stabilized bismuth oxide 53-56 (1992) 460
- Breiter, M.W., see G. Dorner 53-56 (1992) 553
- Brinkmann, D., see M. Sonderegger 53-56 (1992) 849
- Brinkmann, D., see W. Gang 53-56 (1992) 1102
- Bruce, P.G., F. Krok, P. Lightfoot, J.L. Nowinski and V.C. Gibson, Multivalent cation intercalation 53-56 (1992) 351
- Bruce, P.G., M.T. Hardgrave and C.A. Vincent, The determination of transference numbers in solid polymer electrolytes using the Hittorf method 53-56 (1992) 1087
- Burggraaf, A.J., see H.J.M. Bouwmeester 53-56 (1992) 460
- Burggraaf, A.J., see B.A. van Hassel 53-56 (1992) 890
- Cable, T.L., see T.J. Mazanec 53-56 (1992) 111
- Cao, J.-D., W.-Y. Xu, Y. Zhou and Y.-F. Le, Sodium-sulfur cell and battery test 53-56 (1992) 678
- Cao, Q., see C. Wang 53-56 (1992) 1106
- Capuano, F., see W. Gang 53-56 (1992) 1102
- Carlile, C.J., see K. Funke 53-56 (1992) 947
- Carter, S., A. Selcuk, R.J. Chater, J. Kajda, J.A. Kilner and B.C.H. Steele, Oxygen transport in selected nonstoichiometric perovskite-structure oxides 53-56 (1992) 597
- Carter, S., see R.J. Chater 53-56 (1992) 859
- Catlow, C.R.A., Can the mechanisms of ion transport in SSIs be determined by computer modelling? 53-56 (1992) 955

- Catti, M., see E. Cazzanelli 53-56 (1992) 383
- Cazzanelli, E., G. Mariotto, M. Catti and C.M. Mari, Photo-induced transformations in pyrochlore and trirutile phases of HTaWO₆ 53-56 (1992) 383
- Chater, R.J., see S. Carter 53-56 (1992) 597
- Chater, R.J., S. Carter, J.A. Kilner and B.C.H. Steele, Development of a novel SIMS technique for oxygen self-diffusion and surface exchange coefficient measurements in oxides of high diffusivity 53-56 (1992) 859
- Chen, R., R. Yang, B. Durand, A. Pradel and M. Ribes, A study of the mixed alkali effect by frequency-dependent conductivity in Li₂O-Na₂O-P₂O₅ glasses 53-56 (1992) 1194
- Chernov, S.V., see J. ten Eicken 53-56 (1992) 843
- Chia, W.T., see B.V.R. Chowdari 53-56 (1992) 1172
- Chiang, P.H., D. Eng, H. Alqahtany and M. Stoukides, Nonoxidative methane coupling with the aid of solid electrolytes 53-56 (1992) 135
- Choudhury, A., see J.B. Bates 53-56 (1992) 647
- Chowdari, B.V.R., see R. Gopalakrishnan 53-56 (1992) 1168
- Chowdari, B.V.R., K.L. Tan and W.T. Chia, Raman and X-ray photoelectron spectroscopic studies of lithium phosphotungstate glasses 53-56 (1992) 1172
- Chu, W.F., D. Fischer, H. Erdmann, M. Ilgenstein, H. Köppen and V. Leonhard, Thin and thick film electrochemical CO₂ sensors 53-56 (1992) 80
- Clausen, D., see A. Schirmer 53-56 (1992) 426
- Cofrancesco, P., S. Scotti, M. Villa, P. Mustarelli and A. Gottvald, Quantitative interpretation of NMR spectra of disordered solids 53-56 (1992) 868
- Colomban, Ph., E. Mouchon, N. Belhadj-Tahar and J.C. Badot, Radio and microwave frequency relaxations and conductivity in superionic NASICON 53-56 (1992) 813
- Conflant, P., M. Drache, M. Lagrenée, J.C. Boivin and J.P. Wignacourt, A new multiple perovskite family Sr₃(Bi_{1-y}Sb_y)O_{5.5-δ} (0 ≤ y ≤ 1) 53-56 (1992) 592
- Cook, R.L., see J.H. White 53-56 (1992) 149
- Copcutt, R.C. and W.C. Maskell, CO/CO₂ electrochemistry on zirconia electrolyte with platinum electrodes in relation to amperometric oxygen sensors 53-56 (1992) 119
- Corish, J., see D. Foley 53-56 (1992) 184
- Corrigan, O.I., see D. Foley 53-56 (1992) 184
- Couturier, J.C., see O. Tillement 53-56 (1992) 391
- Cox, D.S., R.F. O'Connor and W.W. Smeltzer, Measurement of oxidation/reduction kinetics to 2100°C using non-contact solid-state electrolytes 53-56 (1992) 238
- Creus, R., J. Sarradin and M. Ribes, Thin films of ionic and mixed conductive glasses: their use in microdevices 53-56 (1992) 641
- Croce, F., see W. Gang 53-56 (1992) 1102
- Cullander, C. and R.H. Guy, Visualization of iontophoretic pathways with confocal microscopy and the vibrating probe electrode 53-56 (1992) 197
- Cutroni, M., A. Magistris and M. Villa, Dynamics and structure of (Ag₂S)_x(AgPO₃)_{1-x} glasses studied by ultrasounds and ³¹P NMR 53-56 (1992) 1232
- Cutroni, M., see S. Scotti 53-56 (1992) 1237
- Dalba, G., see F. Rocca 53-56 (1992) 1253
- Datta, A., R. Kikuchi and H. Sato, Percolation threshold for electronic conduction in β-alumina type compounds: II 53-56 (1992) 453
- Davies, P.K., see Y. Hu 53-56 (1992) 539

- Davies, P.K. and C.M. Kagan, Ion exchange reactions of potassium brannerite $K_{0.8}(V_{0.8}Mo_{1.2})O_6$ 53-56 (1992) 546
- Dekker, J.P., see V.E.J. van Dieten 53-56 (1992) 611
- De Leeuw, S.W., see M. Forsyth 53-56 (1992) 1011
- Delmas, C. and I. Saadoune, Electrochemical and physical properties of the $Li_xNi_{1-y}Co_yO_2$ phases 53-56 (1992) 370
- Dharmasena, G. and R. Frech, Phase stabilization of sodium sulfate by aliovalent cation substitution 53-56 (1992) 1274
- Dieckmann, R., see J. Xue 53-56 (1992) 209
- Dieckmann, R., see F.-H. Lu 53-56 (1992) 290
- Dieterich, W., see D. Knödler 53-56 (1992) 1135
- Dokiya, M., see T. Kawada 53-56 (1992) 418
- Dorner, G., H. Durakpasa, G. Fafilek and M.W. Breiter, Production and characterization of polycrystalline (Na, Ca) β'' -alumina 53-56 (1992) 553
- Drache, M., see P. Conflant 53-56 (1992) 592
- Drennan, J., see S.P.S. Badwal 53-56 (1992) 769
- Driouiche, A., see C. Genin 53-56 (1992) 315
- Duboudin, F., see A. Pierre 53-56 (1992) 1200
- Dudney, N.J., see J.B. Bates 53-56 (1992) 647
- Dudney, N.J., J.B. Bates, R.A. Zuhr, C.F. Luck and J.D. Robertson, Sputtering of lithium compounds for preparation of electrolyte thin films 53-56 (1992) 655
- Dunn, B., see J.D. Barrie 53-56 (1992) 496
- Durakpasa, H., see G. Dorner 53-56 (1992) 553
- Durand, B., see R. Chen 53-56 (1992) 1194
- Dyrllie, O., see T. Norby 53-56 (1992) 446
- Eastman, C.D., see F.M. Sutherland 53-56 (1992) 68
- Eckert, H., see A. Pradel 53-56 (1992) 1187
- El-Farh, L., see C. Julien 53-56 (1992) 400
- Eng, D., see P.H. Chiang 53-56 (1992) 135
- Erdmann, H., see W.F. Chu 53-56 (1992) 80
- Estournes, C., see M. Menetrier 53-56 (1992) 1208
- Etsell, T.H., see F.M. Sutherland 53-56 (1992) 68
- Etsell, T.H., see S.J. Backs 53-56 (1992) 1305
- Faber, W., see A. Schirmer 53-56 (1992) 426
- Fafilek, G., see G. Dorner 53-56 (1992) 553
- Farrington, G.C., see L. Xie 53-56 (1992) 1054
- Farrington, G.C., see M.S. Mendolia 53-56 (1992) 1059
- Farrington, G.C., see Å. Wendsjö 53-56 (1992) 1077
- Feist, T.P., see Y. Hu 53-56 (1992) 539
- Fergus, J.W., see C.B. Alcock 53-56 (1992) 39
- Ferloni, P., see M. Mastragostino 53-56 (1992) 471
- Figlarz, M., see C. Genin 53-56 (1992) 315
- Fischer, D., see W.F. Chu 53-56 (1992) 80
- Foley, D., J. Corish and O.I. Corrigan, Iontophoretic delivery of drugs through membranes including human stratum corneum 53-56 (1992) 184

- Fornasini, P., see F. Rocca 53-56 (1992) 1253
- Forsyth, M., V.A. Payne, M.A. Ratner, S.W. de Leeuw and D.F. Shriver, Molecular dynamics simulations of highly concentrated salt solutions: Structural and transport effects in polymer electrolytes 53-56 (1992) 1011
- Fourrier-Lamer, A., see J.C. Badot 53-56 (1992) 343
- Francoeur, M.L., see R.O. Potts 53-56 (1992) 165
- Frech, R., see W. Huang 53-56 (1992) 1095
- Frech, R., see G. Dharmasena 53-56 (1992) 1274
- Frye Jr., J.G., see T.J. Mazanec 53-56 (1992) 111
- Fueki, K., see J. Mizusaki 53-56 (1992) 126
- Fujiki, Y., see S. Yoshikado 53-56 (1992) 754
- Fujiki, Y., see M. Watanabe 53-56 (1992) 784
- Funahashi, S., see H. Takahashi 53-56 (1992) 1164
- Funke, K., see H. Sato 53-56 (1992) 907
- Funke, K., T. Kloidt, D. Wilmer and C.J. Carlile, Jump relaxation in RbAg_4I_5 by dynamic conductivity and quasielastic neutron scattering 53-56 (1992) 947
- Gamo, T., see N. Taniguchi 53-56 (1992) 998
- Gang, W., J. Roos, D. Brinkmann, F. Capuano, F. Croce and B. Scrosati, Comparison of NMR and conductivity in $(\text{PEO})_8\text{LiClO}_4 + \gamma\text{-LiAlO}_2$ 53-56 (1992) 1102
- Gellings, P.J., see H.J.M. Bouwmeester 53-56 (1992) 460
- Genin, C., A. Driouiche, B. Gérard and M. Figlarz, Hydrogen bronzes of new oxides of the $\text{WO}_3\text{-MoO}_3$ system with hexagonal, pyrochlore and ReO_3 -type structures 53-56 (1992) 315
- George, G.N., see D.E.W. Vaughan 53-56 (1992) 1282
- Gérard, B., see C. Genin 53-56 (1992) 315
- Gibson, V.C., see P.G. Bruce 53-56 (1992) 351
- Glasse, M.D., R.J. Latham, R.G. Linford and R.A.J. Pynenburg, Structure-conductivity relationships in divalent polymer electrolytes 53-56 (1992) 1111
- Glumov, A.V., see J. ten Eicken 53-56 (1992) 843
- Goldner, R.B., F.O. Arntz, G. Berera, T.E. Haas, G. Wei, K.K. Wong and P.C. Yu, A monolithic thin-film electrochromic window 53-56 (1992) 617
- Goldstone, J., see I.J. Pickering 53-56 (1992) 405
- Gopalakrishnan, R., B.V.R. Chowdari and K.L. Tan, Electrical and structural characterization of the $x\text{CuO}:(1-x)\text{V}_2\text{O}_5$ 53-56 (1992) 1168
- Goto, T., see T. Narushima 53-56 (1992) 265
- Gottvald, A., see P. Cofrancesco 53-56 (1992) 868
- Graham, M.J., see R. Prescott 53-56 (1992) 229
- Granqvist, C.G., Electrochromism and smart window design 53-56 (1992) 479
- Greaves, C., see P.R. Slater 53-56 (1992) 989
- Greenblatt, M., see B. Wang 53-56 (1992) 1214
- Gruzalski, G.R., see J.B. Bates 53-56 (1992) 647
- Gummow, R.J. and M.M. Thackeray, Lithium-cobalt-nickel-oxide cathode materials prepared at 400°C for rechargeable lithium batteries 53-56 (1992) 681
- Gunsser, W., see I.V. Murin 53-56 (1992) 837
- Gunsser, W., see J. ten Eicken 53-56 (1992) 843
- Guo, J.-D., K.P. Reis and M.S. Whittingham, Open structure tungstates: Synthesis, reactivity and ionic mobility 53-56 (1992) 305

- Guy, R.H., see R.O. Potts 53-56 (1992) 165
 Guy, R.H., see C. Cullander 53-56 (1992) 197
- Haas, T.E., see R.B. Goldner 53-56 (1992) 617
- Haile, S.M., B.J. Wuensch, T. Siegrist and R.A. Laudise, Conductivity and crystallography of new alkali rare-earth silicates synthesized as possible fast-ion conductors 53-56 (1992) 1292
- Hardgrave, M.T., see P.G. Bruce 53-56 (1992) 1087
- Hariharan, K., C. Sangamithra and A.M. Sureshini, New solid electrolyte system: Polycrystalline CuI-Ag₂O-MoO₃ 53-56 (1992) 1179
- Hash, M.C., see I. Bloom 53-56 (1992) 739
- Hasty, E.F., see J.T. Vaughey 53-56 (1992) 573
- Hatoh, K., see N. Taniguchi 53-56 (1992) 998
- Hattori, M., see S. Yamanaka 53-56 (1992) 527
- Hattori, M., see M. Ohashi 53-56 (1992) 534
- Hattori, M., see H. Nakano 53-56 (1992) 635
- Heitjans, P., see A. Schirmer 53-56 (1992) 426
- Heredia, A., see J. Benavente 53-56 (1992) 170
- Higuchi, H., see Y. Takeda 53-56 (1992) 748
- Hiki, Y., H. Takahashi and H. Kobayashi, Anelastic and viscous properties of AgI-AgPO₃ glass 53-56 (1992) 1157
- Hiki, Y., see H. Takahashi 53-56 (1992) 1164
- Hinode, H., see M. Wakihara 53-56 (1992) 413
- Hinokuma, K., K. Ogasawara, A. Kishimoto, S. Takano and T. Kudo, Electrochromism of spin-coated MoO₃·*n*H₂O thin films from peroxo-polymolybdate 53-56 (1992) 507
- Hirai, T., see T. Narushima 53-56 (1992) 265
- Hirano, K., see J. Mizusaki 53-56 (1992) 126
- Hiyama, S., see J. Kawamura 53-56 (1992) 1227
- Hoshino, S., see T. Sakuma 53-56 (1992) 1278
- Hu, Y., P.K. Davies and T.P. Feist, Formation and ion-exchange chemistry of new oxides with the hexagonal MoO₃ structure 53-56 (1992) 539
- Huang, K., W. Wu and Q. Liu, A new electrochemical sensor for rapid determination of silicon content in carbon saturated iron 53-56 (1992) 24
- Huang, W. and R. Frech, Raman spectra of PPO-salt complexes: Mixed cations and anions 53-56 (1992) 1095
- Iguchi, Y., see T. Narushima 53-56 (1992) 265
- Ikezawa, M., see T. Awano 53-56 (1992) 1269
- Ilgenstein, M., see W.F. Chu 53-56 (1992) 80
- Imanishi, N., see Y. Takeda 53-56 (1992) 748
- Ina, K., see K. Yamana 53-56 (1992) 763
- Inoue, C., see M. Wakihara 53-56 (1992) 413
- Ioannou, A.S. and W.C. Maskell, Characterisation of amperometric zirconia oxygen sensors prepared using planar thick film technology 53-56 (1992) 85
- Ishigame, M., see T. Watanabe 53-56 (1992) 606
- Ishigame, M., see H. Yugami 53-56 (1992) 1264
- Ishii, T., Dynamical properties of 1-D hopping conductors: Frenkel-Kontorova model 53-56 (1992) 928

- Ishii, T., see K. Takahashi 53-56 (1992) 933
Ishikawa, H., see N. Kuriyama 53-56 (1992) 688
Ishikawa, T., see H. Sato 53-56 (1992) 907
Iwahara, H., see T. Yajima 53-56 (1992) 983
Iwahara, H., see N. Taniguchi 53-56 (1992) 998
- Jacobsen, T., see K. West 53-56 (1992) 356
Jacobsen, T., see B. Zachau-Christiansen 53-56 (1992) 364
Jacobson, A.J., see I.J. Pickering 53-56 (1992) 405
Jacobsson, P., see L.M. Torell 53-56 (1992) 1037
Jacobsson, P., see I. Albinsson 53-56 (1992) 1044
Jeffries-Nakamura, B., see R.M. Williams 53-56 (1992) 806
Jones, S.D. and J.R. Akridge, A thin film solid state microbattery 53-56 (1992) 628
Joseph, J., see M. Madou 53-56 (1992) 47
Joseph, J., see S. Oh 53-56 (1992) 90
Julien, C., see G.-A. Nazri 53-56 (1992) 376
Julien, C., O. Mohammad Hussain, L. El-Farh and M. Balkanski, Electrochemical studies of lithium insertion in MoO_3 films 53-56 (1992) 400
- Kagan, C.M., see P.K. Davies 53-56 (1992) 546
Kageyama, H., see K. Ado 53-56 (1992) 723
Kageyama, H., see Y. Saito 53-56 (1992) 728
Kai, K., see W. Wernet 53-56 (1992) 1125
Kajda, J., see S. Carter 53-56 (1992) 597
Kambe, S., M. Kawai, Y. Murakoshi and R. Sekine, Changes in the Bi and Cu valences and the Cu K-edge XANES for Bi 2201 and 2212 phases by annealing in absence of oxygen 53-56 (1992) 442
Kanert, O., see K.L. Ngai 53-56 (1992) 936
Kanno, R., see Y. Takeda 53-56 (1992) 748
Kanno, R., see T. Atake 53-56 (1992) 1260
Kawada, T., N. Sakai, H. Yokokawa and M. Dokiya, Electrical properties of transition-metal-doped YSZ 53-56 (1992) 418
Kawai, M., see S. Kambe 53-56 (1992) 442
Kawaji, H., see T. Atake 53-56 (1992) 1260
Kawamura, J., see Y. Oyama 53-56 (1992) 1221
Kawamura, J. and S. Hiyama, New superionic glasses based on silver iodide with organic monomer ions 53-56 (1992) 1227
Kikkert, S., see R.M. Williams 53-56 (1992) 806
Kikuchi, R., see A. Datta 53-56 (1992) 453
Kilner, J.A., see S. Carter 53-56 (1992) 597
Kilner, J.A., see R.J. Chater 53-56 (1992) 859
Kim, C.-S., see H.-I. Yoo 53-56 (1992) 583
Kishimoto, A., see K. Hinokuma 53-56 (1992) 507
Kishimoto, A., T. Kudo and T. Nanba, Amorphous tantalum and niobium oxide proton conductors derived from respective peroxo polyacids 53-56 (1992) 993
Klein, L.C., see B. Wang 53-56 (1992) 1214
Kloidt, T., see K. Funke 53-56 (1992) 947

- Knödler, D., W. Dieterich and J. Petersen, Coulombic traps and ion conduction in glassy electrolytes 53-56 (1992) 1135
- Kobayashi, H., see Y. Hiki 53-56 (1992) 1157
- Koegler, J.-H., see A.A. van Zomeren 53-56 (1992) 333
- Kofstad, P., see T. Norby 53-56 (1992) 446
- Koksang, R., see S. Yde-Andersen 53-56 (1992) 673
- Kondo, S., see K. Takada 53-56 (1992) 339
- Kondo, S., K. Takada and Y. Yamamura, New lithium ion conductors based on $\text{Li}_2\text{S}-\text{SiS}_2$ system 53-56 (1992) 1183
- König, U. and J.W. Schultze, The examination of the influence of a space-charge layer on the formation kinetics of thin passive films by Schottky-Mott analysis 53-56 (1992) 255
- Kopp, A., H. Näfe and W. Weppner, Characterization of the electronic charge carriers in TZP 53-56 (1992) 853
- Köppen, H., see W.F. Chu 53-56 (1992) 80
- Koshiba, T., see W. Wernet 53-56 (1992) 1125
- Koshiro, I., see J. Mizusaki 53-56 (1992) 126
- Kosuda, K., see M. Watanabe 53-56 (1992) 784
- Krok, F., see P.G. Bruce 53-56 (1992) 351
- Kruidhof, H., see H.J.M. Bouwmeester 53-56 (1992) 460
- Krumpelt, M., see I. Bloom 53-56 (1992) 739
- Kudo, T., see K. Hinokuma 53-56 (1992) 507
- Kudo, T., see A. Kishimoto 53-56 (1992) 993
- Kugler, C., see M. Sonderegger 53-56 (1992) 849
- Kumagai, N., Y. Matsuura, Y. Umetzu and K. Tanno, Preparation and characterization of tungstic acid C phases containing various cations 53-56 (1992) 324
- Kuo, C.K., A. Tan and P.S. Nicholson, $\text{NH}_4-\beta''-\text{Al}_2\text{O}_3$ ceramics as hydrogen sensors 53-56 (1992) 58
- Kuo, C.K., N.D. Patel, A. Tan, P. Sarkar and P.S. Nicholson, The kinetics of ultrasonic/electrical-field assisted hydronium ion exchange of $\text{K}^+-\beta''-\text{Al}_2\text{O}_3$ 53-56 (1992) 564
- Kuriyama, N., T. Sakai, H. Miyamura and H. Ishikawa, Solid-state metal hydride batteries using tetramethylammonium hydroxide pentahydrate 53-56 (1992) 688
- Lagrenée, M., see P. Conflant 53-56 (1992) 592
- Latham, R.J., see M.D. Glasse 53-56 (1992) 1111
- Laudise, R.A., see S.M. Haile 53-56 (1992) 1292
- Lauer, U. and J. Maier, Impedance studies of the interface silver halide/electronically conducting oxide: Detection of an ionic space charge layer 53-56 (1992) 885
- Le, Y.-F., see J.-D. Cao 53-56 (1992) 678
- Lee, W.K., B.S. Lim, J.F. Liu and A.S. Nowick, Ac conductivity in ionically conducting crystals and glasses 53-56 (1992) 831
- Leonhard, V., see W.F. Chu 53-56 (1992) 80
- Levasseur, A., see M. Menetrier 53-56 (1992) 1208
- Lewandowski, J.T., see I.J. Pickering 53-56 (1992) 405
- Li, B., see C.B. Alcock 53-56 (1992) 39
- Liaw, B.Y., J. Liu, A. Menne and W. Weppner, Kinetic principles for new types of solid state ionic gas sensors 53-56 (1992) 18
- Lightfoot, P., see P.G. Bruce 53-56 (1992) 351
- Lim, B.S., see W.K. Lee 53-56 (1992) 831

- Lindgren, J., see Å. Wendsjö 53-56 (1992) 1077
- Linford, R.G., see M.D. Glasse 53-56 (1992) 1111
- Liu, J., see B.Y. Liaw 53-56 (1992) 18
- Liu, J.F., see W.K. Lee 53-56 (1992) 831
- Liu, Q., see K. Huang 53-56 (1992) 24
- Liu, Q., see C. Wang 53-56 (1992) 1106
- Loudjani, M., see G. Petot-Ervas 53-56 (1992) 270
- Lu, F.-H. and R. Dieckmann, Point defects and cation tracer diffusion in (Co, Fe, Mn)_{3-δ}O₄ spinels. I. Mixed spinels (Co_xFe_{2y}Mn_y)_{3-δ}O₄ 53-56 (1992) 290
- Lu, Y. and E.A. Secco, Fast ion conductivity and phase transitions in AgRbSO₄ and AgTlSO₄ 53-56 (1992) 223
- Luck, C.F., see J.B. Bates 53-56 (1992) 647
- Luck, C.F., see N.J. Dudney 53-56 (1992) 655
- Lundsgaard, J.S., see S. Yde-Andersen 53-56 (1992) 673
- Macklin, W.J. and R.J. Neat, Performance of titanium dioxide-based cathodes in a lithium polymer electrolyte cell 53-56 (1992) 694
- Madou, M., T. Otagawa, M.J. Tierney, J. Joseph and S. Oh, Multilayer ionic devices fabricated by thin and thick film technologies 53-56 (1992) 47
- Madou, M., see S. Oh 53-56 (1992) 90
- Magistris, A., see M. Cutroni 53-56 (1992) 1232
- Mahmood, M.N. and N. Bonanos, Application of the mixed potential model to the oxidation of methane on silver and nickel-zirconia catalysts 53-56 (1992) 142
- Maier, J., see T. Bieger 53-56 (1992) 578
- Maier, J., see U. Lauer 53-56 (1992) 885
- Mairesse, G., see R.N. Vannier 53-56 (1992) 713
- Mali, M., see M. Sonderegger 53-56 (1992) 849
- Mannari, I., see K. Takahashi 53-56 (1992) 933
- Mari, C.M., see E. Cazzanelli 53-56 (1992) 383
- Marinangeli, A., see M. Mastragostino 53-56 (1992) 471
- Marini, A., see V. Berbenni 53-56 (1992) 1245
- Mariotto, G., see E. Cazzanelli 53-56 (1992) 383
- Martin, S.W., H.K. Patel, F. Borsa and D. Torgeson, Multiple frequency spin/lattice relaxation time and conductivity measurements of FIC Li₂S + SiS₂ glasses 53-56 (1992) 1141
- Martin, S.W., see H.K. Patel 53-56 (1992) 1148
- Maskell, W.C., see M. Benammar 53-56 (1992) 75
- Maskell, W.C., see A.S. Ioannou 53-56 (1992) 85
- Maskell, W.C., see R.C. Copcutt 53-56 (1992) 119
- Mastragostino, M., C. Arbizzani, P. Ferloni and A. Marinangeli, Polymer-based electrochromic devices 53-56 (1992) 471
- Matsuo, S., see H. Yugami 53-56 (1992) 1264
- Matsuura, Y., see N. Kumagai 53-56 (1992) 324
- Mazanec, T.J., T.L. Cable and J.G. Frye Jr., Electrocatalytic cells for chemical reaction 53-56 (1992) 111
- McLin, M.G. and C.A. Angell, Frequency-dependent conductivity relaxation times, and the conductivity/viscosity coupling problem, in polymer-electrolyte solutions: LiClO₄ and NaCF₃SO₃ in PPO 4000 53-56 (1992) 1027
- Mehdi Nekoomanesh, H., see S. Nagae 53-56 (1992) 1118

- Mellander, B.-E., see I. Albinsson 53-56 (1992) 1044
- Mendolia, M.S. and G.C. Farrington, Conductivities and viscosities of polyethylene glycol (PEG) electrolytes containing divalent metal bromides 53-56 (1992) 1059
- Menetrier, M., C. Estournes, A. Levasseur and K.J. Rao, Ionic conduction in B_2S_3 - Li_2S - LiI glasses 53-56 (1992) 1208
- Meng, Q., see C. Wang 53-56 (1992) 1106
- Menne, A., see B.Y. Liaw 53-56 (1992) 18
- Michel-Lledos, V., see A. Pradel 53-56 (1992) 1187
- Mitchell, D.F., see R. Prescott 53-56 (1992) 229
- Miura, N., see Y. Shimizu 53-56 (1992) 490
- Miura, N. and N. Yamazoe, Development of new chemical sensors based on low-temperature proton conductors 53-56 (1992) 975
- Miyaki, Y., see J. Mizusaki 53-56 (1992) 126
- Miyamura, H., see N. Kuriyama 53-56 (1992) 688
- Mizuno, T., see Y. Takeda 53-56 (1992) 748
- Mizusaki, J., H. Tagawa, Y. Miyaki, S. Yamauchi, K. Fueki, I. Koshiro and K. Hirano, Kinetics of the electrode reaction at the CO - CO_2 , porous Pt/stabilized zirconia interface 53-56 (1992) 126
- Mizusaki, J., H. Tagawa, K. Saito, K. Uchida and M. Tezuka, Lithium carbonate as a solid electrolyte 53-56 (1992) 791
- Mohammad Hussain, O., see C. Julien 53-56 (1992) 400
- Monceau, D., see G. Petot-Ervas 53-56 (1992) 270
- Morineau, R., see J.C. Badot 53-56 (1992) 343
- Mouchon, E., see Ph. Colomban 53-56 (1992) 813
- Munk, J. and E. Skou, The use of on-line electrochemical mass spectrometry in the investigation of electrode- and electrolyte materials to be used in solid state fuel cells 53-56 (1992) 875
- Murakoshi, Y., see S. Kambe 53-56 (1992) 442
- Murin, I.V. and W. Gunsser, Relaxation methods for the study of ion transport in halide systems 53-56 (1992) 837
- Murin, I.V., see J. ten Eicken 53-56 (1992) 843
- Mustarelli, P., see P. Cofrancesco 53-56 (1992) 868
- Mustarelli, P., see S. Scotti 53-56 (1992) 1237
- Myles, K.M., see I. Bloom 53-56 (1992) 739
- Näfe, H., see A. Kopp 53-56 (1992) 853
- Nagae, S., H. Mehdi Nekoomanesh, C. Booth and J.R. Owen, The effect of salt concentration on the properties of poly[oxymethylene-oligo(oxyethylene)]/ $LiClO_4$ polymer electrolytes 53-56 (1992) 1118
- Nagai, M. and T. Nishino, Fabrication and evaluation of porous Al_2O_3 - AgI composites 53-56 (1992) 63
- Nagase, K., see Y. Shimizu 53-56 (1992) 490
- Naito, H., see H. Arashi 53-56 (1992) 431
- Naito, H. and H. Arashi, Electrical properties of ZrO_2 - TiO_2 - Y_2O_3 system 53-56 (1992) 436
- Nakamura, O., see K. Ado 53-56 (1992) 723
- Nakamura, O., see Y. Saito 53-56 (1992) 728
- Nakamura, S., see K. Yamana 53-56 (1992) 763

- Nakano, H., S. Yamanaka and M. Hattori, Reactivity of RF magnetron sputtered CaSi_2 film 53-56 (1992) 635
- Nanba, T., see A. Kishimoto 53-56 (1992) 993
- Nanba, T., see T. Awano 53-56 (1992) 1269
- Narushima, T., Y. Iguchi, T. Goto, T. Hirai and Y. Yokoyama, High-temperature active oxidation of CVD- Si_3N_4 in Ar-O_2 atmosphere 53-56 (1992) 265
- Nazri, G.-A. and C. Julien, Far-infrared and Raman studies of orthorhombic MoO_3 single crystal 53-56 (1992) 376
- Neat, R.J., see W.J. Macklin 53-56 (1992) 694
- Needham, E.A., see J.H. White 53-56 (1992) 149
- Neophytides, S., see C.G. Vayenas 53-56 (1992) 97
- Ngai, K.L. and O. Kanert, Comparisons between the coupling model predictions, Monte Carlo simulations and some recent experimental data of conductivity relaxations in glassy ionics 53-56 (1992) 936
- Nicholson, P.S., see C.K. Kuo 53-56 (1992) 58
- Nicholson, P.S., see C.K. Kuo 53-56 (1992) 564
- Niikura, J., see N. Taniguchi 53-56 (1992) 998
- Nishino, T., see M. Nagai 53-56 (1992) 63
- Norby, T., O. Dyrli and P. Kofstad, Protons in Ca-doped La_2O_3 , Nd_2O_3 and LaNdO_3 53-56 (1992) 446
- Nowick, A.S., see W.K. Lee 53-56 (1992) 831
- Nowick, A.S., see T. Scherban 53-56 (1992) 1004
- Nowinski, J.L., see P.G. Bruce 53-56 (1992) 351
- Nowogrocki, G., see R.N. Vannier 53-56 (1992) 713
- O'Connor, D., see R.M. Williams 53-56 (1992) 806
- O'Connor, R.F., see D.S. Cox 53-56 (1992) 238
- Ogasawara, K., see K. Hinokuma 53-56 (1992) 507
- Oh, S., see M. Madou 53-56 (1992) 47
- Oh, S., J. Joseph, T. Otagawa and M. Madou, Multilayer ionic devices fabricated by the plasma-spray method 53-56 (1992) 90
- Ohachi, T., see S. Yoshikado 53-56 (1992) 754
- Ohachi, T., see M. Watanabe 53-56 (1992) 784
- Ohashi, M., M. Sarubo, S. Yamanaka and M. Hattori, Preparation and ionic conductivity of alkali metal titanium silicophosphates $\text{A}_x\text{Ti}_3\text{P}_6\text{Si}_2\text{O}_{25}$ ($\text{A} = \text{Li}, \text{Na}, \text{K}$) 53-56 (1992) 534
- Ohno, K., see T. Atake 53-56 (1992) 1260
- Ohwa, M., see W. Wernet 53-56 (1992) 1125
- Onoda, Y., see S. Yoshikado 53-56 (1992) 754
- Otagawa, T., see M. Madou 53-56 (1992) 47
- Otagawa, T., see S. Oh 53-56 (1992) 90
- Ovenston, A. and J.R. Walls, Complex impedance analysis of heterogeneous catalysts containing mixed or fast ion conductors 53-56 (1992) 825
- Owen, J.R., see G.R. Thomas 53-56 (1992) 513
- Owen, J.R., see S. Nagae 53-56 (1992) 1118
- Owens, B.B. and P.M. Skarstad, Ambient temperature solid state batteries 53-56 (1992) 665
- Oyama, Y. and J. Kawamura, Ionic conductivity of AgI-based superionic glasses under hydrostatic pressure 53-56 (1992) 1221

- Pandey, R., see M. Seel 53-56 (1992) 924
- Park, S.-J., see J.-M. Bae 53-56 (1992) 798
- Passerini, S. and B. Scrosati, Electrochromism of thin-film nickel oxide electrodes 53-56 (1992) 520
- Patel, H.K., see S.W. Martin 53-56 (1992) 1141
- Patel, H.K. and S.W. Martin, Fast ionic conduction in $\text{Na}_2\text{S} + \text{B}_2\text{S}_3$ glasses: Compositional contributions to non-exponentiality in conductivity relaxations 53-56 (1992) 1148
- Patel, N.D., see C.K. Kuo 53-56 (1992) 564
- Payne, V.A., see M. Forsyth 53-56 (1992) 1011
- Pereira-Ramos, J.P., R. Baddour, S. Bach and N. Baffier, Electrochemical and structural characteristics of some lithium intercalation materials synthesized via a sol-gel process: V_2O_5 and manganese dioxides-based compounds 53-56 (1992) 701
- Petersen, G., see L.M. Torell 53-56 (1992) 1037
- Petersen, J., see D. Knödler 53-56 (1992) 1135
- Petot, C., see G. Petot-Ervas 53-56 (1992) 270
- Petot-Ervas, G., C. Petot, D. Monceau and M. Loudjani, Cation redistribution in oxides under oxygen potential gradients: influence on the corrosion kinetics 53-56 (1992) 270
- Phipps, J.B., see E.R. Scott 53-56 (1992) 176
- Pickering, I.J., J.T. Lewandowski, A.J. Jacobson and J. Goldstone, A neutron powder diffraction study of the ordering in $\text{Li}_x\text{Ni}_{1-x}\text{O}$ 53-56 (1992) 405
- Pickering, I.J., see D.E.W. Vaughan 53-56 (1992) 1282
- Pierre, A., F. Duboudin, B. Tanguy and J. Portier, Liquid medium processing of TeO_2 for ionic conductors 53-56 (1992) 1200
- Poeppelmeier, K.R., see J.T. Vaughey 53-56 (1992) 573
- Portier, J., see A. Pierre 53-56 (1992) 1200
- Potts, R.O., R.H. Guy and M.L. Francoeur, Routes of ionic permeability through mammalian skin 53-56 (1992) 165
- Poulsen, F.W. and N. van der Puil, Phase relations and conductivity of Sr- and La-zirconates 53-56 (1992) 777
- Pradel, A., V. Michel-Lledos, M. Ribes and H. Eckert, Structural and electrical characterization of glasses in the system $\text{Li}_2\text{Se}-\text{SiSe}_2$ by ^{29}Si MAS NMR and Raman spectroscopy 53-56 (1992) 1187
- Pradel, A., see R. Chen 53-56 (1992) 1194
- Prescott, R., D.F. Mitchell, G.I. Sproule and M.J. Graham, Transport in $\alpha\text{-Al}_2\text{O}_3$ scales on Fe-Al and Ni-Al alloys at 1100°C 53-56 (1992) 229
- Przyłuski, J. and W. Wieczorek, Copolymer electrolytes 53-56 (1992) 1071
- Pynenburg, R.A.J., see M.D. Glasse 53-56 (1992) 1111
- Quarton, M., see O. Tillement 53-56 (1992) 391
- Rahmel, A., see S. Becker 53-56 (1992) 280
- Rao, K.J., see M. Menetrier 53-56 (1992) 1208
- Rao, N., C.M. van den Bleek, J. Schoonman and O.T. Sørensen, A novel temperature-gradient $\text{Na}^+ - \beta''$ -alumina solid electrolyte based SO_x gas sensor without gaseous reference electrode 53-56 (1992) 30
- Ratner, M.A., see M. Forsyth 53-56 (1992) 1011
- Reis, K.P., see J.-D. Guo 53-56 (1992) 305
- Ribes, M., see R. Creus 53-56 (1992) 641

- Ribes, M., see A. Pradel 53-56 (1992) 1187
- Ribes, M., see R. Chen 53-56 (1992) 1194
- Robertson, J.D., see J.B. Bates 53-56 (1992) 647
- Robertson, J.D., see N.J. Dudney 53-56 (1992) 655
- Rocca, F., G. Dalba, P. Fornasini and A. Tomasi, Structural study of AgI-Ag₂O-B₂O₃ glasses by X-ray absorption spectroscopy 53-56 (1992) 1253
- Roos, J., see M. Sonderegger 53-56 (1992) 849
- Roos, J., see W. Gang 53-56 (1992) 1102
- Rotzinger, B., see W. Wernet 53-56 (1992) 1125
- Ryan, M.A., see R.M. Williams 53-56 (1992) 806
- Saadoune, I., see C. Delmas 53-56 (1992) 370
- Saito, K., see J. Mizusaki 53-56 (1992) 791
- Saito, Y., see K. Ado 53-56 (1992) 723
- Saito, Y., K. Ado, T. Asai, H. Kageyama, O. Nakamura and Y. Yamamoto, Enhancement of ionic conductivity of Na₄Zr₂Si₃O₁₂ by the dispersion of SbF₅-adsorbed solid superacid particles 53-56 (1992) 728
- Sakai, N., see T. Kawada 53-56 (1992) 418
- Sakai, T., see N. Kuriyama 53-56 (1992) 688
- Sako, T., see S. Yamanaka 53-56 (1992) 527
- Sakuma, T., see H. Takahashi 53-56 (1992) 1164
- Sakuma, T., K. Shibata and S. Hoshino, Low-energy excitation in CuI 53-56 (1992) 1278
- Sammells, A.F., see J.H. White 53-56 (1992) 149
- Sangamithra, C., see K. Hariharan 53-56 (1992) 1179
- Sarkar, P., see C.K. Kuo 53-56 (1992) 564
- Sarradin, J., see R. Creus 53-56 (1992) 641
- Sarubo, M., see M. Ohashi 53-56 (1992) 534
- Sato, H., see A. Datta 53-56 (1992) 453
- Sato, H., T. Ishikawa and K. Funke, Frequency dependence of ionic conductivity in interacting lattice gas systems 53-56 (1992) 907
- Schäfer, G.W. and W. Weppner, Preparation of divalent beta-alumina ceramics via ion exchange from K- and Na-β"-alumina ceramics 53-56 (1992) 559
- Scherban, T. and A.S. Nowick, Protonic conduction in Fe-doped KTaO₃ crystals 53-56 (1992) 1004
- Schirmer, A., P. Heitjans, W. Faber and D. Clausen, Diffusion-induced spin-lattice relaxation of ⁸Li in β-LiAl 53-56 (1992) 426
- Schoonman, J., see N. Rao 53-56 (1992) 30
- Schoonman, J., see A.A. van Zomeren 53-56 (1992) 333
- Schoonman, J., see V.E.J. van Dieten 53-56 (1992) 611
- Schultze, J.W., see U. König 53-56 (1992) 255
- Schütze, M., see S. Becker 53-56 (1992) 280
- Scott, E.R., H.S. White and J.B. Phipps, Direct imaging of ionic pathways in stratum corneum using scanning electrochemical microscopy 53-56 (1992) 176
- Scotti, S., see P. Cofrancesco 53-56 (1992) 868
- Scotti, S., M. Villa, P. Mustarelli and M. Cutroni, Structure, conductivity and acoustic attenuation in (Ag₂SO₄)_x(AgPO₃)_{1-x} 53-56 (1992) 1237
- Scotti, S., see V. Berbenni 53-56 (1992) 1245
- Scrosati, B., see S. Passerini 53-56 (1992) 520

- Scrosati, B., see W. Gang 53-56 (1992) 1102
- Secco, E.A., see Y. Lu 53-56 (1992) 223
- Seel, M. and R. Pandey, Ab initio electronic structure of superionic conductor Li_3P 53-56 (1992) 924
- Seki, K., see S. Yamanaka 53-56 (1992) 527
- Sekine, R., see S. Kambe 53-56 (1992) 442
- Selcuk, A., see S. Carter 53-56 (1992) 597
- Shibata, K., see T. Sakuma 53-56 (1992) 1278
- Shimizu, Y., K. Nagase, N. Miura and N. Yamazoe, Electrochromic properties of spin-coated V_2O_5 thin films 53-56 (1992) 490
- Shriver, D.F., see M. Forsyth 53-56 (1992) 1011
- Sidebottom, D., see L.M. Torell 53-56 (1992) 1037
- Siegrist, T., see S.M. Haile 53-56 (1992) 1292
- Skaarup, S., see K. West 53-56 (1992) 356
- Skaarup, S., see B. Zachau-Christiansen 53-56 (1992) 364
- Skarstad, P.M., see B.B. Owens 53-56 (1992) 665
- Skou, E., see J. Munk 53-56 (1992) 875
- Slater, P.R. and C. Greaves, The ionic conductivity of proton containing garnets and their decomposition products 53-56 (1992) 989
- Smeltzer, W.W., see D.S. Cox 53-56 (1992) 238
- Smith, D.R., see R.B. Beeken 53-56 (1992) 220
- Sonderegger, M., J. Roos, C. Kugler, M. Mali and D. Brinkmann, NMR imaging of ^7Li in a $\text{PEO}_8(\text{LiClO}_4)$ film 53-56 (1992) 849
- Sørensen, O.T., see N. Rao 53-56 (1992) 30
- Sproule, G.I., see R. Prescott 53-56 (1992) 229
- Steele, B.C.H., see S. Carter 53-56 (1992) 597
- Steele, B.C.H., see R.J. Chater 53-56 (1992) 859
- Stevens, J.R., see I. Albinsson 53-56 (1992) 1044
- Stoukides, M., see P.H. Chiang 53-56 (1992) 135
- Straub, C.L., see D. Teeters 53-56 (1992) 1083
- Strohmaier, K.G., see D.E.W. Vaughan 53-56 (1992) 1282
- Sukeshini, A.M., see K. Hariharan 53-56 (1992) 1179
- Sutherland, F.M., T.H. Etsell and C.D. Eastman, High temperature measurements on solid and gaseous sulphide systems 53-56 (1992) 68
- Szu, S., see B. Wang 53-56 (1992) 1214
- Tagawa, H., see J. Mizusaki 53-56 (1992) 126
- Tagawa, H., see J. Mizusaki 53-56 (1992) 791
- Takada, K. and S. Kondo, Electrochemical actuator with silver vanadium bronzes 53-56 (1992) 339
- Takada, K., see S. Kondo 53-56 (1992) 1183
- Takahashi, H., see Y. Hiki 53-56 (1992) 1157
- Takahashi, H., Y. Hiki, T. Sakuma and S. Funahashi, Inelastic neutron scattering of $(\text{AgI})_x(\text{AgPO}_3)_{1-x}$ glasses 53-56 (1992) 1164
- Takahashi, K., I. Mannari and T. Ishii, On the two peaks of the specific heat in 1-D FK model: a computer simulation 53-56 (1992) 933
- Takano, M., see Y. Takeda 53-56 (1992) 748
- Takano, S., see K. Hinokuma 53-56 (1992) 507
- Takeda, Y., N. Imanishi, R. Kanno, T. Mizuno, H. Higuchi, O. Yamamoto and

- M. Takano, Oxide ion conductivity in perovskite type $\text{Sr}_2\text{ScAlO}_5$ and related compounds 53-56 (1992) 748
- Tan, A., see C.K. Kuo 53-56 (1992) 58
- Tan, A., see C.K. Kuo 53-56 (1992) 564
- Tan, K.L., see R. Gopalakrishnan 53-56 (1992) 1168
- Tan, K.L., see B.V.R. Chowdari 53-56 (1992) 1172
- Tanguy, B., see A. Pierre 53-56 (1992) 1200
- Taniguchi, I., see S. Yoshikado 53-56 (1992) 754
- Taniguchi, N., K. Hato, J. Niikura, T. Gamo and H. Iwahara, Proton conductive properties of gadolinium doped barium cerates at high temperatures 53-56 (1992) 998
- Tanno, K., see N. Kumagai 53-56 (1992) 324
- Teeters, D., M. Wong and C.L. Straub, Conductivity and glass transition studies of the mixed-alkali effect in poly(propylene oxide)-thiocyanate salt systems 53-56 (1992) 1083
- Ten Eicken, J., W. Gunsser, S.V. Chernov, A.V. Glumov and I.V. Murin, Electrical and EPR studies of heterovalent solid solutions based on superionic $\beta\text{-PbF}_2$ 53-56 (1992) 843
- Tezuka, M., see J. Mizusaki 53-56 (1992) 791
- Thackeray, M.M., see R.J. Gummow 53-56 (1992) 681
- Thomas, G.R. and J.R. Owen, Rare earth oxides in electrochromic windows 53-56 (1992) 513
- Thomas, J.O., see Å. Wendsjö 53-56 (1992) 1077
- Thomas, J.O., What can diffraction tell us about mobile ions? 53-56 (1992) 1311
- Tierney, M.J., see M. Madou 53-56 (1992) 47
- Tillement, O., J. Angenault, J.C. Couturier and M. Quarton, Electrochemical studies of mixed valence NASICON 53-56 (1992) 391
- Tomasi, A., see F. Rocca 53-56 (1992) 1253
- Torell, L.M., P. Jacobsson, D. Sidebottom and G. Petersen, The importance of ion-polymer crosslinks in polymer electrolytes 53-56 (1992) 1037
- Torgeson, D., see S.W. Martin 53-56 (1992) 1141
- Uchida, K., see J. Mizusaki 53-56 (1992) 791
- Umetzu, Y., see N. Kumagai 53-56 (1992) 324
- Underwood, M.L., see R.M. Williams 53-56 (1992) 806
- V.d. Put, P.J., see A.A. van Zomeren 53-56 (1992) 333
- Van den Bleek, C.M., see N. Rao 53-56 (1992) 30
- Van der Puil, N., see F.W. Poulsen 53-56 (1992) 777
- Van Dienen, V.E.J., J.P. Dekker and J. Schoonman, Oxygen diffusion in the SOFC interconnection material $\text{LaCr}_{(1-x)}\text{Mg}_x\text{O}_3$ 53-56 (1992) 611
- Van Hassel, B.A., B.A. Boukamp and A.J. Burggraaf, Oxygen transfer properties of ion-implanted yttria-stabilized zirconia 53-56 (1992) 890
- Vannier, R.N., G. Mairesse, G. Nowogrocki, F. Abraham and J.C. Boivin, Electrical and structural investigations on a new bismuth lead vanadium oxide solid electrolyte 53-56 (1992) 713
- Van Zomeren, A.A., J.-H. Koegler, J. Schoonman and P.J. v.d. Put, Charge transport phenomena in thin-film cathodes 53-56 (1992) 333
- Vargas, R.A. and H. Angulo, Phase transition and proton disordering in some ferroelectric hydrogen-bonded lead salts 53-56 (1992) 1302
- Vaughan, D.E.W., K.G. Strohmaier, I.J. Pickering and G.N. George, Transition metal framework substitutions in sodalites 53-56 (1992) 1282

- Vaughey, J.T., E.F. Hasty and K.R. Poeppelmeier, Cation coordination and oxygen vacancies in mixed oxide perovskites 53-56 (1992) 573
- Vayenas, C.G., S. Bebelis, I.V. Yentekakis and S. Neophytides, Non-Faradaic electrochemical modification of catalytic activity: the work function of metal electrodes in solid electrolyte cells 53-56 (1992) 97
- Villa, M., see P. Cofrancesco 53-56 (1992) 868
- Villa, M., see M. Cutroni 53-56 (1992) 1232
- Villa, M., see S. Scotti 53-56 (1992) 1237
- Villa, M., see V. Berbenni 53-56 (1992) 1245
- Vincent, C.A., see P.G. Bruce 53-56 (1992) 1087
- Wakihara, M., H. Hinode and C. Inoue, Decomposition of NO using Chevrel-phase sulfides 53-56 (1992) 413
- Walls, J.R., see A. Ovenston 53-56 (1992) 825
- Wang, B., S. Szu, M. Greenblatt and L.C. Klein, Structure and ionic conductivity in $(\text{LiCl})_2\text{-Ga}_2\text{O}_3\text{-SiO}_2$ xerogels 53-56 (1992) 1214
- Wang, C., Q. Liu, Q. Cao, Q. Meng and L. Yang, Investigation on the structure and the conductivity of plasticized polymer electrolytes 53-56 (1992) 1106
- Wang, L., see C.B. Alcock 53-56 (1992) 39
- Wang, S.M., see R.B. Beeken 53-56 (1992) 220
- Waser, R., see T. Bieger 53-56 (1992) 578
- Watanabe, M., see S. Yoshikado 53-56 (1992) 754
- Watanabe, M., Y. Fujiki, K. Kosuda, S. Yoshikado and T. Ohachi, Annealing effect on the Frenkel-type defect of gallium in fast ion-conductor $\text{K}_x[\text{Ga}_8\text{Ga}_{8+x}\text{Ti}_{16-x}\text{O}_{56}]$ 53-56 (1992) 784
- Watanabe, T., T. Yatabe, H. Yugami and M. Ishigame, Control of oxygen concentration in BSCCO thin films using solid-state electrolytes 53-56 (1992) 606
- Wei, G., see R.B. Goldner 53-56 (1992) 617
- Wendsjö, Å., J. Lindgren, J.O. Thomas and G.C. Farrington, The effect of temperature and concentration on the local environment in the system $\text{M}(\text{CF}_3\text{SO}_3)_2\text{PEO}_n$ for $\text{M}=\text{Ni}, \text{Zn}$ and Pb 53-56 (1992) 1077
- Weppner, W., see B.Y. Liaw 53-56 (1992) 18
- Weppner, W., see G.W. Schäfer 53-56 (1992) 559
- Weppner, W., see K. Yamana 53-56 (1992) 763
- Weppner, W., see A. Kopp 53-56 (1992) 853
- Wernet, W., H. Yamato, K. Kai, T. Koshiba, M. Ohwa and B. Rotzinger, Improvement of the properties of pyrrole intrinsically conducting polymers (ICP) with polyelectrolytes 53-56 (1992) 1125
- West, K., B. Zachau-Christiansen, S. Skaarup and T. Jacobsen, Lithium intercalation into mixed vanadium-molybdenum oxides 53-56 (1992) 356
- West, K., see B. Zachau-Christiansen 53-56 (1992) 364
- White, H.S., see E.R. Scott 53-56 (1992) 176
- White, J.H., E.A. Needham, R.L. Cook and A.F. Sammells, The electrochemical oxidative dimerization of methane 53-56 (1992) 149
- Whittingham, M.S., see J.-D. Guo 53-56 (1992) 305
- Wieczorek, W., Entropy effects in conductivity of the blend-based and composite polymer solid electrolytes 53-56 (1992) 1064

- Wieczorek, W., see J. Przyluski 53-56 (1992) 1071
- Wignacourt, J.P., see P. Conflant 53-56 (1992) 592
- Williams, R.M., B. Jeffries-Nakamura, M.L. Underwood, M.A. Ryan, D. O'Connor and S. Kikkert, High temperature conductivity of potassium β' alumina 53-56 (1992) 806
- Wilmer, D., see K. Funke 53-56 (1992) 947
- Wong, K.K., see R.B. Goldner 53-56 (1992) 617
- Wong, M., see D. Teeters 53-56 (1992) 1083
- Wu, W., see K. Huang 53-56 (1992) 24
- Wuensch, B.J., see S.M. Haile 53-56 (1992) 1292
- Xie, L. and G.C. Farrington, Molecular mechanics and dynamics simulation of poly(ethylene oxide) electrolytes 53-56 (1992) 1054
- Xu, W.-Y., see J.-D. Cao 53-56 (1992) 678
- Xue, J. and R. Dieckmann, Zirconia - a non-inert material reacting with platinum and oxygen containing gases 53-56 (1992) 209
- Yajima, T. and H. Iwahara, Studies on proton behavior in doped perovskite-type oxides. II. Dependence of equilibrium hydrogen concentration and mobility on dopant content in Yb-doped SrCeO_3 53-56 (1992) 983
- Yamamoto, O., see Y. Takeda 53-56 (1992) 748
- Yamamoto, O., see T. Atake 53-56 (1992) 1260
- Yamamoto, Y., see Y. Saito 53-56 (1992) 728
- Yamamura, Y., see S. Kondo 53-56 (1992) 1183
- Yamana, K., S. Nakamura, T. Yoshimura, K. Ina and W. Weppner, Electrical resistances and deformation of yttria-stabilized cubic zirconia with alumina 53-56 (1992) 763
- Yamanaka, S., T. Sako, K. Seki and M. Hattori, Anion exchange reactions in layered basic copper salts 53-56 (1992) 527
- Yamanaka, S., see M. Ohashi 53-56 (1992) 534
- Yamanaka, S., see H. Nakano 53-56 (1992) 635
- Yamato, H., see W. Wernet 53-56 (1992) 1125
- Yamauchi, S., see J. Mizusaki 53-56 (1992) 126
- Yamazoe, N., see Y. Shimizu 53-56 (1992) 490
- Yamazoe, N., see N. Miura 53-56 (1992) 975
- Yan, Y.M., Multicomponent equilibria in gas-participating β'' and β alumina systems 53-56 (1992) 733
- Yang, L., see C. Wang 53-56 (1992) 1106
- Yang, R., see R. Chen 53-56 (1992) 1194
- Yatabe, T., see T. Watanabe 53-56 (1992) 606
- Yde-Andersen, S., R. Koksang and J.S. Lundsgaard, Rechargeability and rate capability of polymer electrolyte batteries at different temperatures 53-56 (1992) 673
- Yentekakis, I.V., see C.G. Vayenas 53-56 (1992) 97
- Yokokawa, H., see T. Kawada 53-56 (1992) 418
- Yokoyama, Y., see T. Narushima 53-56 (1992) 265
- Yoo, H.-I. and C.-S. Kim, Electrical properties and defect structure of $\text{Y}_{1-x}\text{Ca}_x\text{FeO}_3$ orthoferrites 53-56 (1992) 583
- Yoshikado, S., T. Ohachi, I. Taniguchi, M. Watanabe, Y. Onoda and Y. Fujiki, Ion conduction in one-dimensional ionic conductors Mg-, Rb-, and Al-doped $\text{K}_x\text{Ga}_8\text{Ga}_{8+x}\text{Ti}_{16-x}\text{O}_{56}$ single crystals 53-56 (1992) 754

Yoshikado, S., see M. Watanabe	53-56 (1992) 784
Yoshimura, T., see K. Yamana	53-56 (1992) 763
Yu, P.C., see R.B. Goldner	53-56 (1992) 617
Yugami, H., see T. Watanabe	53-56 (1992) 606
Yugami, H., S. Matsuo and M. Ishigame, Raman scattering study on fractal structures in YSZ	53-56 (1992) 1264
Zachau-Christiansen, B., see K. West	53-56 (1992) 356
Zachau-Christiansen, B., K. West, T. Jacobsen and S. Skaarup, Lithium insertion in isomorphous $\text{MO}_2(\text{B})$ structures	53-56 (1992) 364
Zebrowski, J.P., see I. Bloom	53-56 (1992) 739
Zhou, Y., see J.-D. Cao	53-56 (1992) 678
Zuhr, R.A., see J.B. Bates	53-56 (1992) 647
Zuhr, R.A., see N.J. Dudney	53-56 (1992) 655

Subject Index

- ¹⁸O-exchange, 890
1-D hopping conduction, 928
- α -alumina growth and morphology, 229
Ac complex conductivity
 frequency dependence, 754
Ac conductivity, 1194
Ac impedance, 647, 806
Acoustics, 1232, 1237
Activation entropy, 1064
Activation volume, 1221
AgI-containing glasses, 1253
Alkali-rare earth silicate, 1292
Aluminates, 1305
Ambient temperature micobatteries, 1071
Amorphous, 993, 1200
Amorphous materials, 868
Amorphous PEO, 1118
Amorphous thin films, 507
Amperometric, 85
Anelasticity, 1157
Anion-exchanger, 527
Anisotropy, 1292
Antimonic acid, 975
Auxiliary electrode, 24
- β'' alumina isomorph, 553
 β'' -alumina solid electrolyte, 678
 β -alumina, 453, 496, 1311
 vaporization, 733
Band structure, 924
Barium cerate, 998
Basic copper acetate, 527
Basic copper permanganate, 527
Battery, 665, 678
Benzyl alcohol, 490
Bi-based superconductor, 442
Bismuth aluminates, 739
Bismuth and copper valences, 442
Bismuth based oxygen conductors, 713
Boron oxide, 868
Brannerites, 546
Bronze, 339
BSCCO, 606
- Cage-model jump-relaxation model, 907
Carbon dioxide, 119
Carbon dioxide sensor, 80
Carbon monoxide, 119
Carbon oxide oxidation, 527
Catalyst, 142, 413, 825
 promotion, 97
 support, 97
Catalytic activity, 97
Cathode sputtering, 628
Cation distributions, 405
Cationic crosslinks, 1059
Cation tracer diffusion, 290
Ceramic oxides, 859
CH₄ nonoxidative coupling, 135
Charge distribution, 255
Chemical potential gradients, 270
Chemical vapor deposition, 265
Chemical vapour, 333
Chevrel-phase sulfides, 413
Clustering, 1011
CO-CO₂ electrode reaction, 126
Colloidal, 1200
Color center, 1269
Combustion, 85
Complex impedance, 184, 763
Composite, 63, 825, 1064
Composite electrolyte, 728, 885
Compressibility, 1221
Computer simulation, 955
Conduction mechanism, 791, 875
Conductivity, 63, 343, 418, 553, 739, 777, 843, 1071, 1102, 1106, 1141, 1168, 1187, 1221, 1227, 1292, 1305
 K⁺ β'' -alumina, 806
Confocal microscopy, 197
Copper, 496
Copper K-edge XANES, 442
Counter-ion effects, 1135
Coupling model, 1194
C phases
 structure, 324
Crystallinity, 1106
Crystallography, 1292
Crystals, 1292
Crystal structure, 442, 713, 1292
Cu⁺-Ag⁺ pairs, 496
Cu⁺-Cu⁺ dimers, 496
Cubic perovskites, 748
Cuprated oxides, 573
Cuticular membrane, 170
CVM, 453

- Cyclic voltammetry, 890
 mass spectrometrical, 875
- Debye-Waller factor, 1253
- Decomposition of NO, 413
- Defect structure, 583
- Deformation, 763
- Deintercalation, 534
- Depletion layer, 885
- Deposition, 333
- Dielectric, 825
- Diffusion, 270, 333, 578
- Diffusion coefficient, 1135
- Disordered solid, 1264
- Disordered vacancy, 748
- Disordering, 1302
- Dispersive transport, 1135
- Divalent β - and β'' -alumina ceramics, 559
- Divalent cations, 351
- Doped ceria, 831
- Dynamical properties, 1164
- Dynamic conductivity, 947
- Dynamics, 1253
- Electrical conductivity, 220, 583, 993
- Electrical resistance, 170
- Electrocatalysis, 111
- Electrocatalyst, 142
- Electrochemistry, 142
- Electrochromic device, 471
- Electrochromic sensor
 thin films, 617
- Electrochromic smart windows, 513, 617
- Electrochromism, 479, 490, 507, 520
- Electrode kinetics, 18, 890
- Electrode material, 583
- Electrode reaction, 418
- Electrode resistance, 798
- Electrode surface, 97
- Electrolytes, 39, 998
- Electromagnetic, 825
- Electronic conductivity, 370, 418, 460
- Electronic properties, 853
- Electronic structure, 924
- Electron paramagnetic resonance (EPR), 843
- EMS, 875
- Enhanced conductivity, 63
- Enhancement, 184
- Ethylene, 149
- Ethylene oxide copolymers, 1071
- Evaporation, 280
- EVD, 611
- EXAFS, 1111, 1253, 1282
- Excess charge, 442
- Far-infrared, 376
- Fast capacity measurement, 255
- Fast ion conductivity, 223
- Fe-doped YSZ, 890
- Ferri-sodalite, 1282
- Ferroelectricity, 813
- Films, 400
- Fluorides, 39
- Fractal structures, 1264
- Fracton, 1264
- Framework-substitution, 1282
- Frenkel defect on gallium, 784
- Frenkel-Kontorova model, 928, 933
- Fuel cell, 47, 126, 149, 967
- Gallosilicate, 1214
- Garnets, 989
- Gas sensor, 975
- Gibbs energy of formation, 68
- Glass, 641, 936, 1148, 1187, 1208, 1237
- Glasses
 borate, 831
 silicate, 831
- Glass transition, 1157, 1245
 temperature, 1083
- Glassy electrolyte, 1183
- Glassy solid electrolytes, 1141
- Glucose sensor, 975
- Grain boundary
 conduction, 723
 resistance, 806
- H₂ sensor, 975
- Heat capacity, 1260
- Hebb-Wagner polarization, 853
- Hexagonal MoO₃, 539
- Hexagonal tungsten bronze, 305
- Hexagonal tungsten oxide, 315
- Hittorf method, 1087
- Hopping conduction, 907
- Human stratum corneum, 184
- Hydrogarnets, 989
- Hydrogen bronzes, 315
- Hydrogen concentration, 983
- Hydrogen sensor, 58
- Hydronium- β'' -alumina, 564
- Hydrostatic pressure, 1221
- Impedance spectroscopy, 825, 885, 890
- Inelastic neutron scattering, 1164
- Influence of space charge, 255
- Infrared and Raman polarized spectroscopy, 376
- Infrared spectroscopy, 165, 1077
- Insertion compounds, 400
- Intercalation, 305, 351, 370, 391, 527, 534
- Intercalation chemistry, 315
- Interconnection material, 611
- Ion association, 1044
- Ion-conducting polymer, 1095

- Ion exchange, 305, 539, 546, 553, 559, 564
Ionically conductive glass, 1194
Ionic conductivity, 534, 559, 763, 769, 831, 1044, 1059, 1214
 copper, 1278
 lithium, 723, 791, 1027, 1208
 one-dimensional, 754
 oxide, 748, 967
 potassium, 754
 proton, 135, 305, 446, 967, 975, 983, 989, 993, 998, 1004
 silver, 1232, 1237, 1245, 1253
 sodium, 1027, 1148
Ionic conductivity enhancement, 728
Ionic crosslinks, 1037
Ionic mobility, 220
Ionic permeability, 165
Ionic space charges, 885
Ionic thermocurrent (ITC), 843
Ionic transport, 955
Ion implantation, 890
Ion insertion, 539
Ion-ion interactions, 831, 1054
Ion pairing, 1011, 1077
Ion-polymer interactions, 1054
Ion substitution, 806
Iontophoresis, 176, 184, 197
Iron-doped KTaO_3 crystals, 1004
Iron sulphide, 68
Isotope effect, 967
Isotopic exchange, 597
ITC, 837
ITC/TSD, 843

Jump relaxation, 947

 $\text{K}-\beta''$ -alumina, 564
Kinetics, 265, 564

Lanthanum, 777
Lanthanum oxide, 446
Lanthanum trifluoride, 47
Lattice gas, 1135
Lattice gas model, 907
Layered materials, 681
Layered structure, 527
Lead acid salts, 1302
Lead trifluoromethanesulfonate, 1077
Light scattering, 1037
Lipid phase separation, 165
Liquid-medium, 1200
Lithium, 333
Lithium battery, 370, 681, 701
 rechargeable, 647
Lithium carbonate, 791
Lithium cobalt oxide, 681
Lithium diffusion, 426
Lithium electrolyte, 647, 655
Lithium insertion, 356, 364

Lithium intercalation, 324, 356
Lithium nickelate, 370
Lithium nickel oxide, 405, 681
Lithium perchlorate, 1087
Lithium phosphate, 1183
Lithium phosphide, 924
Lithium phosphotungsten, 1172
Lithium polymer electrolyte battery, 673
Lithium polymer electrolyte cell, 694
Lithium siliconsulfide, 1141
Lithium sulfide, 1183
Lithium titanium phosphate, 723
Low energy excitation, 1164, 1278
Low temperature, 1111
Low temperature oxide electrolyte, 713
Luminescence, 496

Magnesium, 351
Magnetic moment, 149
Manganese dioxide, 701
Manganese-doped yttria-stabilized zirconia, 418
Manganese sulphide, 68
Mechanical properties, 1125, 1157
Membrane potential, 170
Membranes, 184
Metal hydride battery, 688
Metastable structures, 539
Methane, 142
Methane coupling, 111
Methane oxidative dimerization, 149
Meyer-Neldel rule, 1064
Mg-doped LaCrO_3 , 611
Microbattery, 628, 641
Microporous membranes, 176
Micro-reactor, 142
Microsensor, 641, 975
Microstructure, 769
Millimeter wave, 1269
Mixed alkali effect, 1083, 1194
Mixed anion effect, 1095
Mixed cation effect, 1095
Mixed conductor, 391, 400, 431, 436, 453
Mixed former effect, 647
Mixed potential, 142
Mixed valency multiple perovskites, 592
Mixed vanadium-molybdenum-oxide, 356
 $\text{MO}_2(\text{B})$ structure, 364
Modified surfaces, 18
Molecular dynamics, 1011, 1054, 1311
Molybdenum oxide, 356, 376
Monoclinic molybdenum oxide, 315
Monte Carlo calculations, 936
Monte Carlo method, 1135
Morphology, 333
Multicomponent equilibrium, 733

 $\text{Na}^+-\beta''$ -alumina, 30

- NASICON, 391, 813
Neodymium oxide, 446
Neutron diffraction, 573
Neutron scattering, 1278
New solid electrolyte system, 1179
NH₄-β"-alumina ceramics, 58
Nickel oxide, 520
Nickel trifluoromethanesulfonate, 1077
Niobium, 993
Nitrogen and argon annealing, 442
NMR, 837, 936, 1102, 1106, 1141, 1187, 1232, 1237
 β-radiation detected, 426
NMR imaging, 849
NMR-MAS, 868
Non-Debye relaxation, 831, 907
Non-isothermal sensor, 30
Nonstoichiometry, 290
n-type electronic conduction, 436
- Oligomers, 1059
One-dimensional tunnel structure, 784
On-line electrochemical mass spectrometry, 875
Optical absorbance, 578
Optimization methods, 868
Order, 391
Organic ions, 1227
Oxidation, 111, 142, 265, 280
Oxidation kinetics, 238, 270
Oxide growth, 255
Oxide ions, 739
Oxygen, 859
Oxygen concentration, 606
Oxygen electrode, 890
Oxygen permeability, 431, 460
Oxygen self-diffusion, 597
Oxygen sensor, 39, 75, 85, 90, 119, 238
Oxynitride, 647
- Path probability method of irreversible statistical mechanics, 907
PEO, 1106
Percolation threshold, 453
Permeability, 875
Permeation pathways, 197
Permselectivity, 170
Perovskite electro catalysts, 149
Perovskites, 39, 597, 967, 998
Perovskite-type oxide, 983
Peroxo-polyacid, 993
Peroxo-polymolybdate, 507
Peroxo-polytungstomolybdate, 507
Phase separation, 1044, 1245
Phase stabilization, 1274
Phase structure, 1071
Phase study, 777
Phase transitions, 223, 1302
Phosphate glasses, 1232
- Photo-induced transitions, 383
Plasma spray, 90
Plasmon, 1269
Plasticization, 1106
Platinum-stabilized zirconia electrode, 126
Platinum-zirconium intermetallic compounds, 209
PMFG, 837
PO₂ dependence, 798
Point defects, 270, 290
Polyalkylene modified polydimethylsiloxanes, 1044
Polycrystalline, 553, 1179
Polyelectrolytes, 1125
Poly(ethylene oxide), 1054, 1077, 1087
Polymer, 1027
Polymer blends, 1064
Polymer electrolyte, 849, 1011, 1037, 1087, 1102, 1106, 1111, 1118
 battery, 673
Polymeric electrolytes, 1064, 1071
Polymer-salt complexes, 1077, 1095
Poly(propylene oxide)-salt complexes, 1083
Polypyrrole, 1125
Positive electrode, 370
Potassium β"-alumina, 806
Potassium fast ion conductor, 784
Potassium titanogallate, 784
Potentiometric measurement, 75
Powder neutron diffraction, 405
Praesodymium oxide, 513
Preferred orientation, 63
Process control, 3
Proton mobility, 983
Pulse technique, 255
Pump-gauge, 75
Pyrochlore, 305, 383
Pyrochlore tungsten oxide, 315
- Quasielastic neutron scattering, 947
- Radio and microwave frequency relaxations, 813
Radiofrequency/microwave dielectric relaxations, 343
Raman spectroscopy, 1044, 1095, 1172, 1264, 1274
Rare earth oxides, 446
Reactivity, 635
Redox kinetics, 578
Reduction kinetics, 238
Relaxation, 1141
Relaxation methods for solid electrolytes, 837
Rf magnetron sputtering, 655
Rietveld refinement, 351
Rubidium silver iodide, 947
- SbF₅ adsorbed solid superacid, 728
Sc³⁺ ion doping, 723
Scandia-zirconia, 769
Schottky-Mott analysis, 255
Schottky-type anomaly, 1260

- Secondary battery, 1125
Secondary performance, 628
Segregation, 270
Self-diffusion, 859
Sensor, 18, 47, 339
Signal processing, 75
Silicon nitride, 265
Silicon probe, 24
Silicon sulfide, 1183
Silicophosphate, 534
Silver borate, 1245
Silver electrodes, 135
Silver iodide, 1227
Silver vanadium oxide, 339
SIMS, 859
 profiling and imaging, 229
Simulation, 1054, 1311
Single crystals, 376
Small polaron hopping, 436
Smart window, 479, 520
Sodium sulfate, 1274
Sodium-sulfur cell, 678
Sodium tungstate, 305
Sodium zirconium silicate, 728
SOFC, 431, 611
Soft chemistry, 539, 546
Sol-gel process, 343
Sol-gel synthesis, 701
Solid electrolyte, 24, 68, 665, 967
Solid electrolyte cell, 97
Solid solutions, 843
Solid state, 665
Solid-state battery, 688
Solid-state diffusion, 611
Solid-state electrolyte, 238, 606
Solid-state protonic conductors, 875
Solid-state sensor, 3
Solubility, 280, 418
SO_x gas sensor, 30
Specific heat, 933
Spectroscopy, 383, 868
Spherulites, 1111
Spin-coating, 490, 507
Spinel, 290, 1305
Spin-lattice relaxation, 426
Sputtered film, 635
Stratum corneum, 165
Strontium, 777
Strontium bismuth antimony mixed oxides, 592
Strontium titanate, 578
Structural proton, 1302
Structure, 1187, 1253
Sulphur sensor, 68
Superconductor, 606
Superionic conducting glasses, 1157, 1164
Superionic conductor, 924
Superionic glass, 1221, 1227
Surface conductance, 798
Surface exchange, 859
Surface exchange kinetics, 597
Surface oxygen exchange, 460
Synthesis, 534
T'-phase, 769
Tantalum, 993
Tetragonal zirconia, 853
Tetramethylammonium hydroxide pentahydrate, 688
Theory, 1011
Thermal activation energy, 798
Thermodynamic function, 1260
Thermodynamics, 209
Thermogravimetric analysis, 983
Thermopower, 583
Thick film, 85
Thin and thick film, 80
Thin films, 68, 490, 641, 647, 655
Thioborate, 1208
Thiophene-based polymers, 471
Titania, 431
Titanium dioxide, 364, 436
Titanium dioxide electrode, 694
Transdermal drug delivery, 176, 184
Transference number, 418, 1087
Transition, 265
Transition metal oxides, 270
Transport, 280
Transport mechanism, 1011
Transport number, 446
Trapping effects, 578
Triple phase boundary, 126
Trirutile, 383
Tungsten acid C phases
 preparation and characterization, 324
Ultrasonic assistance, 564
Unit cell volume, 149
Universal dielectric response, 907
Vacuum evaporation, 628
Vanadate glasses, 1168
Vanadium dioxide, 364
Vanadium-molybdenum oxide, 546
Vanadium oxide, 356, 490
Vanadium oxide bronzes, 343
Vanadium pentoxide, 701
Vibrating probe electrode, 197
Viscosity, 1027, 1157
Vitreous electrolytes, 1245
Warburg impedance, 126
Wet process, 490
Xerogel, 1214
XPS, 635, 1168, 1172

- Y³⁺ ion non-doping, 723
- Yttria-stabilized zirconia (YSZ), 436, 606, 763, 890, 1264
- Zeolite, 1282
- Zinc, 351, 1111
- Zinc doping, 573
- Zinc trifluoromethanesulfonate, 1077
- Zirconate, 777
- Zirconia, 85, 90, 111, 119, 209, 431
- Zirconia sensor, 126
- Zirconium-platinum alloys, 209